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(54) Title: INFLUENCE OF GENOTYPE ON SUSCEPTIBILITY TO TREATMENT WITH FISH OIL

(57) Abstract: The present invention relates to methods for assessing an individual's susceptibility to treatment of an inflammatory disease with a dietary supplement. The invention describes the recognition that the sensitivity of an individual to the inflammation suppressing effects of fish oil on TNF- α production is linked both to genetic variation encoded by, or associated with, TNF- α , LT- α and/or IL-6 single nucleotide polymorphisms and to the inherent level of production of TNF- α by cells.